

PATENT ABSTRACTS OF JAPAN

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(54) COPOLYSILAZANE AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To obtain a copolysilazane which is desirable as a silicon nitride precursor and can give a silicon nitride sinter of an extensively controllable carbon content when fired at high temperatures by uniting an inorganic polysilazane part having a specified MW with an organic polysilazane part having a specified MW.

CONSTITUTION: A block copolysilazane of a number-average MW of 100-50000 consisting of an inorganic polysilazane part A of a number-average MW of 100-50000 and an organic polysilazane part B of a number-average MW of 100-50000. Part A chiefly has a skeleton of formula I, while part B a skeleton of formula II. In formula II, R1 and R2 are each a hydrogen atom or an alkyl, alkenyl, cycloalkyl, alkylamino, aryl, aralkyl or alkylsilyl which may have a substituent, provided that the case where both R1 and R2 are hydrogen atoms is excluded.

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